

## 2002 –2012 Occupational Projections

Occupational Title	Minimum Education Requirements	** Total Annual Openings	1 <sup>st</sup> Qtr. 2005
			Hourly Wage Range
Construction and Building Inspectors	Work Exp. in a related occ.	50	\$ 13.75 - 24.19
First-Line Supervisors/Managers of Construction Trades and Extraction Workers	Work Exp. in a related occ.	420	16.88 - 24.67
Helpers--Installation, Maintenance, and Repair Workers	Short-term Tng. & Exp.	150	\$ 7.80 - 11.52
Helpers--Carpenters	Short-term Tng. & Exp.	170	8.27 - 11.59
Meter Readers, Utilities	Short-term Tng. & Exp.	100	8.29 - 13.37
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	Short-term Tng. & Exp.	130	8.76 - 12.59
Helpers--Electricians	Short-term Tng. & Exp.	140	9.32 - 12.86
Pipelayers	Mod.-term Tng. & Exp.	60	\$ 9.87 - 13.98
Roofers	Mod.-term Tng. & Exp.	70	9.95 - 15.80
Drywall and Ceiling Tile Installers	Mod.-term Tng. & Exp.	70	10.75 - 16.16
Operating Engineers and Other Construction Equipment Operators	Mod.-term Tng. & Exp.	220	11.42 - 16.99
Painters, Construction and Maintenance	Mod.-term Tng. & Exp.	300	11.63 - 16.17
Sheet Metal Workers	Mod.-term Tng. & Exp.	90	11.93 - 18.56
Crane and Tower Operators	Mod.-term Tng. & Exp.	70	13.86 - 20.77
Cement Masons and Concrete Finishers	Long-term Tng. & Exp.	80	\$ 11.49 - 16.50
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Long-term Tng. & Exp.	140	11.86 - 18.72
Carpenters	Long-term Tng. & Exp.	470	12.24 - 17.22
Structural Iron and Steel Workers	Long-term Tng. & Exp.	60	13.14 - 19.56
Plumbers, Pipefitters, and Steamfitters	Long-term Tng. & Exp.	430	14.28 - 20.78
Electricians	Long-term Tng. & Exp.	510	14.63 - 23.01
Electrical Power-Line Installers and Repairers	Long-term Tng. & Exp.	60	15.60 - 25.34
Architectural and Civil Drafters	Postsecondary voc.	70	\$ 14.46 - 24.71
Environmental Engineering Technicians	Associate degree	20	\$ 13.67 - 21.92
Surveyors	Bachelor's degree	60	\$ 13.14 - 25.31
Cost Estimators	Bachelor's degree	100	18.08 - 28.22
Construction Managers	Bachelor's degree	200	21.09 - 35.03

\*\*Total Annual Openings = New job growth plus replacement needs due to turnover.

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## Occupations in the Spotlight



## Electricians



Install, maintain, and repair electrical wiring, equipment and fixtures. Ensure that work is in accordance with relevant codes. May install or service streetlights, intercom systems, or electrical control systems.

- ◆ License required
- ◆ Knowledge of the practical application of engineering science and technology
- ◆ Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications

## Required WorkKeys® Scores:

AM 5 LI 5 RI 5

## Construction Managers



Plan, direct, coordinate or budget activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, and implementation.

- ◆ Knowledge of business and management principles
- ◆ Knowledge of materials, methods, and the tools involved in construction or repair of structures and roads
- ◆ Knowledge of principles and procedures for personnel recruitment, selection, and training

## Required WorkKeys® Scores:

AM 6 LI 5 RI 5

AM = Applied Mathematics

LI = Locating Information

RI = Reading for Information

**WorkKeys® assessments** give students and workers reliable, relevant information about workplace skill levels. Combined with information about skill levels required for jobs, assessments information can help students make better career and educational decisions. Louisiana uses three WorkKeys® assessments as the foundation for awarding career readiness certificates. For more information, contact the Workforce Education and Training Office at the Louisiana Board of Regents (225-342-4253).

LOUISIANA  
Opportunities in

*This diverse Career Cluster prepares learners for careers in the designing, planning, managing, building and maintaining the built environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.*

## FASTEST GROWING JOBS

- Heating, Air Conditioning, and Refrigeration Mechanics and Installers
- Environmental Engineering Technicians
- Architects, Except Landscape and Naval
- Carpet Installers
- Cement Masons and Concrete Finishers

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"This document was produced as a collaborative endeavor between the Louisiana Departments of Labor, Education and the Board of Regents".

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individuals with disabilities*

**Reference  
Center:**

Louisiana Department of Labor -  
<http://www.LAWWORKS.net> -

Occupational Information – go to Career Services  
<http://lavos.laworks.net>

Louisiana Employment Outlook -  
[http://www.laworks.net/qm\\_employmentprojections.asp](http://www.laworks.net/qm_employmentprojections.asp)

Louisiana Technical Colleges -  
<http://www.ltc.edu/home.htm>

Financial Aid  
<http://www.osfa.state.la.us/>

Louisiana Board of Regents-  
<http://www.regents.state.la.us>

Louisiana Community & Technical College System  
<http://www.lctcs.net/>

ACT  
<http://www.act.org>

National Career Clusters  
<http://www.careerclusters.org>



*This brochure is designed to provide assistance to students as they prepare to make decisions about course selection, their career options and future plans.*

**The Career Options Law (Act 1124)** mandates that all high school students have a five-year educational plan and that all high schools offer career majors/areas of concentrations. It is the intent of the law that students have a focus while in school to help make learning more relevant and meaningful.

Students in 6<sup>th</sup> – 8<sup>th</sup> grades must complete at least six career awareness activities which help students to develop a five-year educational plan. It also requires school systems to offer areas of concentrations to address students' interests.

**The Five-Year Educational Plan**  
Students must complete this plan at the end of their 8<sup>th</sup> grade year with input from their counselor and/or advisor and family. This plan must be reviewed and revised on an annual basis throughout high school with student, parent and counselor/advisor signatures each year.

**TOP EMPLOYING INDUSTRIES**

Industry (based on North American Classification System NAICS)	2002	2012	Number of New Jobs	Percent Change
Building Equipment Contractors	27,625	33,510	5,885	21.3%
Nonresidential Building Construction	15,490	16,400	910	5.9%
Utility System Construction	18,704	19,900	1,196	6.4%

**Architecture and Construction Cluster**  
High School Areas of Concentrations (2006 – 2007)

**Diploma Endorsements** will help provide for students the preparation necessary for college and/or a career. By the same token employers will be getting better prepared workers, and higher education institutions will have students better prepared for success in their post secondary institutions. These endorsements help students to maximize their 11<sup>th</sup> and 12<sup>th</sup> grades, encourage more students to take Advanced Placement courses, encourage students to take advantage of career and technical education courses and opportunities, as well as hold high schools accountable for what is taught during the 11<sup>th</sup> and 12<sup>th</sup> grades. Students can complete the necessary requirements for two different diploma endorsements:

- Academic Endorsement
- Career and Technical Endorsement

Please see your guidance counselor for further details.

**The Louisiana WORKReady! Certificate** is a portable credential that signifies to an employer that an individual has achieved acceptable levels in the foundation skills necessary for success in the workplace and gives Louisiana citizens a “key to work”. Issued by the Workforce Commission, the Certificate is a tool that helps employers identify qualified candidates to fill the openings they have in their businesses.

People who attain the Certificate, which will display their workplace readiness skill levels, will have an advantage as they pursue their career goals. The Certificate increases the likelihood that business will receive a well-trained, highly skilled worker and that education will prepare students for available jobs. For more information, contact the Workforce Commission at 225-342-2094 or the Board of Regents at 225-342-4253.

<b>Career Cluster</b> Architecture and Construction
<b>Areas of Concentrations</b> Air Conditioning and Refrigeration Architecture Cabinetmaking Carpentry and Construction Drafting Electrical Industrial Operations Masonry Plumbing
<b>Post Secondary Programs</b> Architecture Architectural Engineering Apprenticeship Construction Management Drafting Two-year post secondary education
<b>Training Programs Related Certification(s):</b> EPA Certification Exam for Refrigerant Handling Certified Drafter NCCER Certification – <ul style="list-style-type: none"><li>• Carpentry</li><li>• Electrical</li><li>• General</li><li>• Glazing</li><li>• Heating, Ventilating, and A/C</li><li>• Insulation</li><li>• Iron Works</li><li>• Masonry</li><li>• Painting</li><li>• Roofing</li><li>• Sheet Work</li><li>• Others, etc.</li></ul> For more information on course selection visit our web site: <a href="http://www.doe.state.la.us/ide/curriculum/home.html">http://www.doe.state.la.us/ide/curriculum/home.html</a>